

December 5, 2011

EPA Region 10
Investigations and Engineering Unit (OEA-95)
1200 Sixth Avenue
Seattle WA 98101
Attn: Michele Wright

RE: Emerald Services, Inc.

Summary Report - PCB Contamination and De-Contamination

Blaser Die Casting

Dear Ms. Wright;

This report is being provided in order to summarize the management of PCB-contaminated used oil received by Emerald Services, Inc.'s Seattle facility from Blaser Die Casting. This information is supplemental to that provided in the Unmanifested Waste Report (Report) dated October 19, 2011.

The Emerald facility located at 1500 Airport Way South in Seattle, Washington (Emerald), received a shipment of used oil contaminated with polychlorinated biphenyls (PCBs) on September 27, 2011. The contamination was discovered upon routine PCB testing of bulked oil at the Emerald facility.

Screening by the Emerald laboratory showed PCB Arochlor 1254 in an Emerald storage tank of consolidated used oil (LS-1). By screening truck retain samples from each shipment of used oil consolidated into the tank, Emerald was able to trace the PCB contamination to a shipment from Blaser Die Casting, 5700 3rd Ave S., Seattle WA 98108. Two of the follow-up PCB samples collected from the Blaser Die Casting drums on September 30, 2011 also contained PCB Arochlor 1254.

The Blaser Die Casting retain sample collected by Emerald prior to the used oil pick-up on September 27, 2011, as well as the samples collected from the Blaser Die Casting drums on September 30, 2011 were then shipped to Spectra Laboratories for third-party PCB analysis (see Spectra lab reports, Client IDs 110929.0A-8 and 10364-4). Spectra reported results of 1,340mg/kg PCB Arochlor 1254 for the September 27, 2011 Blaser Die Casting retain sample, and 1,280 and 28.4mg/kg PCB Arochlor 1254 for the samples collected from Blaser Die Casting on September 30, 2011.

Once transportation and proper disposal were arranged, Emerald pumped the contaminated used oil out of the storage tank to a tanker truck. Contaminated equipment was washed with water and the storage tank (LS-1) was decontaminated with diesel per the enclosed PCB Tank Decontamination and Sampling Plan. The 22,895 kg of TSCA-contaminated used oil, inclusive of rinseates, was then transported to Clean Harbors on manifest #004391191FLE, leaving the Emerald facility on October 17, 2011. A copy of the manifest used for shipment is attached.

If you have any questions regarding this report, or need additional information, please feel free to contact me at the numbers below.

Sincerely,

Sheila Smith, Environmental Coordinator

Emerald Services, Inc.

(206) 832-3204 (Office)

(253) 370-7912 (Cell)

(206) 832-3304 (fax)

sheilas@emeraldnw.com

cc: Facility Operating Record

Enclosures: Spectra Laboratories Analytical Reports, Client IDs 110929.0A-8, 10364-4, and

10365-12

Emerald PCB Tank Decontamination and Sample Plan Emerald LS-1 Swabs Analysis Report Lab ID # 111018-0L Manifest #004391191FLE with Certificate of Disposal

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

10/03/2011

P.O.#:

Project:

Blaster Die Casting

Client ID:

110929.0A-8

Emerald Services, Inc.

7343 E. Marginal Way S.

Seattle, WA 98108

Sample Matrix: Oil

Date Sampled:

09/27/2011

Date Received:

09/30/2011

Spectra Project: 2011090680

Spectra Number: 1

Rush

Analyte

Result

Units

Method

PCB AR1254

1340

mg/Kg

SW846 8082A

*Surrogate diluted out of sample.

Surrogate	Recovery	Method
Decachlorobiphenyl	0*	SW846 8082A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/jjb

Page 1 of 1

CHAIN of CUSTODY

PAGE

26110906K SPECTRA Laboratories

(253) 272-4850

Tacoma, WA 98421

2221 Ross Way

Fax (253) 572-9838

www.spectra-lab.com

RUSH

STANDARD

ADDRESS CHANGE STUSTED SOLVENTS 800am auazuas Oercent Ethanol by GC ~ormaldehyde 09/30/11 OTHER Stain Size (Subcontract) DATE POLIDS (SPECIFY) GOS TNIO9 HSAJE **Emerald Recyclin** YTIGI8AUT COMPANY 9208 XOJ/XJ 9706/0706 Hd As, Cd, Ct, Pb CCLP METALS (SPECIFY) ETAL FOLP METALS RORA 8 OTAL METALS (SPECIFY) TOTAL METALS RCRA 8 PRINTED NAME Amenable Cyanide ORGANICS 8083/608 PCB Leslie Embrey ANG/HAG OYSE S270/625 SEMI VOA ADDRESS: 1500 Airport Way South SZ60 CHLOR SOLVENTS AOV 4S8\08S8 Benzene-TCLP **HYDROCARBONS** 994 HEW (LOG) (HAL) WEH-19\$ #99 **VO-H9TWN** AWTPH-G BTEX/NWTPH-G BTEX NWTPH-HCID NUMBER OF CONTAINERS MATRIX ਰ RELINQUISHED BY Prefer FAX 206-832-3155 or e-MAil. SAMPLED IME 6 Emerald Recycling- Seattle SAMPLED HIGH CONCENTRATION PCBISHI 09/27/11 DATE Blaster Die Casting FAX: PURCHASE ORDER # ER-21499 lesliee@emeraldnw.com CONTACT: Leslie Embrey PHONE: 206-832-3093 SAMPLE ID 110929.0A-8 PROJECT: CLENT: e-MAIL:

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10:00 AM ACU PUL

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days. Past tue accounts subject to 1 1/2 % per month interest. Customer agrees to pay all costs of collection/including reasonable

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attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc.

Payment Terms: Net 30

×

DISPOSE SAMPLES

RETURN SAMPLES Shipping Fee Applies

RELINQUISHED BY

RECEIVED BY

RECEIVED BY

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

10/05/2011

P.O.#:

ER-21511

Project:

Blaser Die Casting

Client ID:

10364-4

Sample Matrix: Oil

Date Sampled:

09/30/2011

Date Received: 10/04/2011

Spectra Project: 2011100094

Spectra Number: 1

Rush

<u>Analyte</u>

Emerald Services, Inc.

Seattle, WA 98108

7343 E. Marginal Way S.

Result

Units

Method

PCB AR1254

1280

mg/Kg

SW846 8082A

*Surrogate diluted out of sample.

Surrogate	Recovery	Method
Decachlorobiphanyl	0*	SW846 8082A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/jjb

Page 1 of 2

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

10/05/2011

P.O.#:

ER-21511

Project:

Blaser Die Casting

Client ID:

10365-12

Date Sampled:

Sample Matrix: Oil

09/30/2011

Date Received: 10/04/2011

Spectra Project: 2011100094

Spectra Number: 2

Rush

Analyte

Emerald Services, Inc.

Seattle, WA 98108

7343 E. Marginal Way S.

Result

Units

Method

PCB AR1254

28,4

mg/Kg

SW846 8082A

*Surrogate diluted out of sample.

Ѕштодате	Recovery	Method
Decachlorobiphenyl	0*	SW846 8082A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/jjb

Page 2 of 2

CHAIN of CUSTODY

PAGE

12:40PM 10:00 KM CHANGE ADDRESS Payment Terms: Net 36 days. Past due accounts subject to 1 1/2 % per month interest. Customer agrees to pay all costs of collection/including reasonable F-LISTED SOLVENTS 10/04/11 800am RUSH əuəzuac Sercent Ethanol by GC **Formaldehyde** OTHER Grain Size (Subcontract) DATE SOLIDS (SPECIFY) COE attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. Spectra Analytical, Inc. TUIO9 HSAJ9 Emerald Recycling STANDARD TIGISAUT 9206 XOT/X1 9406/0406 Hd As, Cd, Cr, Pb METALS TOLP METALS (SPECIFY) FCLP METALS RCRA 8 OTAL METALS (SPECIFY) OTAL METALS RCRA 8 PRINTED NAME Amenable Cyanide ORGANICS × 8082/608 PCB Leslie Embrey AN9/HA9 07S8 8270/625 SEMI VOA ADDRESS: 1500 Airport Way South 8260 CHLOR SOLVENTS AOV 428/0858 Benzene- ICLP **HYDROCARBONS** Fax (253) 572-9838 1884 HEW (FOG) 1864 SGT-HEM (TPH) XQ-H9TWN MMLbH-G BTEX/NVTPH-G X3T8 имтрн-нсгр SPECTRA Laboratories (253) 272-4850 NUMBER OF CONTAINERS MATRIX ₩ <u></u> RELINQUISHED BY RELINQUISHED BY FAX: 206-832-3155 or e-MAIL RECEIVED BY RECEIVED BY SAMPLED TIME g 뗩 Emerald Recycling- Seattle Tacoma, WA 98421 09/30/11 SAMPLED 09/30/11 HIGH CONCENTRATION PCB'SIII Blaser Die Casting SPECIAL INSTRUCTIONS/COMMENTS: DISPOSE SAMPLES PURCHASE ORDER # ER-21511 lesilee@emeraldnw.com moderate level in 18365-12 Leslie Embrey 2221 Ross Way PHONE: 206-832-3093 In 1036#-4 sample SAMPLE ID RETURN SAMPLES (Shipping Fee Applies) CONTACT: PROJECT: 10365-12 10364-4 CLIENT e-MAIL:

CHAIN OF CUSTODY/REQUEST FOR LABORATORY ANALYSIS

7343 E. Marginal Way South Seattle, Washington 98108 (206) 832-3000 • Fax (206) 832-3030

_ PETROLEUM / AUTOMOTIVE

INDUSTRIAL / TACOMA

FIELD SERVICES

10364

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PRICING NEEDED: Y_ GENERATOR STATUS:

PRICING NEEDED: Y N CHLOR-D-TEK	OTHER (PLEASE SPECIFY)					PRINT NAME DATE							
AIRPORT WAY	PROFILE GC/					DATE NAME	W W WEINGUISHED BY	24 430/U RECEIVED BY RELINGUISHED	RECEIVED BY REUNQUISHED BY BY	RECEIVED BY RELINQUISHED	BY BY RECEIVED BY	Ag	RECEIVED BY
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CHAIN OF CUSTODY/REQUEST FOR LABORATORY ANALYSIS

7343 E. Marginal Way South Seattle, Washington 98103 (206) 832-3000 • Fax (206) 832-3030

PETROLEUM / AUTOMOTIVE

INDUSTRIAL / TACOMA

10365

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FIELD SERVICES

CHECK HERE IF CUSTOMER IS NEW GENERATOR NAME: SLADEN TO ANDRESS: CROOK SCALE

PRICING NEEDED: Y N GENERATOR STATUS:

CHLOR-D-TEK

AIRPORTWAY	TACOMA	
PH &	PROFILE GC/	· · · · ·
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GENERATOR SAMPLE ID# WASTE DESCRIPTION	Assembly was a second s	COURT (TERMSE STRUETY)
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10365-8 7.17.7		
03659		
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10x65-(1) 11-50x(1)		
10365-17 (27 7)-29801		
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	SIGNATURE	DAM TAKE
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PCB TANK DECONTAMINATION AND SAMPLE PLAN

This PCB Tank Decontamination and Sample Plan (Plan) outlines the steps to be taken when decontaminating a tank that has contained TSCA contaminated oil. It may also be used to decontaminate a tank containing lower levels of PCB contamination. However, that level of decontamination is generally not necessary unless the PCB contamination was due to a TSCA PCB source.

The first step of decontamination is a thorough rinsing/flushing of the tank with diesel fuel (kerosene may also be used). The tank must be rinsed a minimum of three times. Each rinse must use a volume of diesel equivalent to approximately 10 percent of the container capacity.

Following the tank rinsing, swab samples must be taken of the tank interior and inlet and outlet piping. The attached diagram shows a typical tank shape. For swab sampling, the tank is divided into six sections: north wall, south wall, east wall, west wall, floor, and ceiling. For each section, a template of approximately $10 \, \mathrm{cm} \times 10 \, \mathrm{cm}$ grid is used to identify sample locations. Take inlet/outlet swabs in a circular sweep of the tube. A gauze pad treated with hexane is used for swiping each point within the sample grid. Each swipe taken within a section is composited for PCB analysis. A total of 6 composite samples will be needed. However this number will increase to include any inlet and outlet piping.

The tank is considered to be decontaminated if all swipe sample results are below $10\mu g/100cm2$. If any results are above $10\mu g/100cm2$, the tank must be rinsed and reswiped until all results are below the $10\mu g/100cm2$ limit.

Date:Type of do	Testing: Lab ID#	8-0 L LSI Surabs
	Identification	· · · · · · · · · · · · · · · · · · ·
1) Drum Number:	BOL Number:	Result:
Generator name:	North wall	K10mg/100cm2
2) Drum Number:	BOL Number:	Result:
Generator name:	but well	<10 mg /100c-2
3) Drum Number:	BOL Number:	Result:
Generator name:	East Will	<10 mg/100cm2
4) Drum Number:	BOL Number:	Result:
Generator name:	Jest Will	<10 mg/100cm2
5) Drum Number:	BOL Number:	Result:
Generator name:	TOP	<10 mg/1000m2
6) Drum Number:	BOL Number:	Result:
Generator name:	Soffor	<10 mg/100cm2
7) Drum Number:	BOL Number:	Result:
Generator name:		
8) Drum Number:	BOL Number:	Result:

Generator name:

9) Drum Number:

BOL Number:

Generator name:

10) Drum Number:

BOL Number:

Result:

Generator name:

BOL Number:

Result:

Analyst : L. Embrey Date:

10/18/1

WASTE MANIFEST WADO58367152 5. Generator's Name and Mailing Address EMERALD SERVICES INC - AIRPORT W 7343 E MARGINAL WAY SOUTH SEATTLE, WA 98108 Generator's Phone: (206) 832-3000 6. Transporter 1 Company Name EMERALD SERVICES, INC. 7. Transporter 2 Company Name U.S. 8. Designated Facility Name and Site Address CLEAN HARBORS (ARAGONITE), LLC 11500 N. APTUS ROAD, EVIT 56	A. Magnest Tracking UU 4 3 Railing address) VC - AIRPO I.S. EPA ID Number									
WASTE MANIFEST WADO58367152 1 1-800-424-9300 5. Generator's Name and Mailing Address EMERALD SERVICES INC - AIRPORT W 7343 E MARGINAL WAY SOUTH SEATTLE, WA 98108 Generator's Phone: (206) 832-3000 6. Transporter 1 Company Name EMERALD SERVICES, INC. 7. Transporter 2 Company Name U.S. Designated Facility Name and Site Address CLEAN HARBORS (ARAGONITE), LLC 11600 N. APTUS ROAD, EVIT 56	A. Magnest Tracking UU 4 3 Railing address) VC - AIRPO I.S. EPA ID Number	91191 FLE								
EMERALD SERVICES INC - AIRPORT W 7343 E MARGINAL WAY SOUTH SEATTLE, WA 98108 Generator's Phone: (206) 832-3000 G. Transporter 1 Company Name EMERALD SERVICES, INC. 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address CLEAN HARBORS (ARAGONITE), LLC 11600 N. APTUS ROAD, EVIT 56	ading address) VC AIRPO S. EPAID Number	ORT WAY								
7. Transporter 2 Company Name 8. Designated Facility Name and Site Address CLEAN HARBORS (ARAGONITE), LLC 11500 N. APTUS ROAD, FYTT S6		WADO58364647								
8. Designated Facility Name and Site Address CLEAN HARBORS (ARAGONITE), LLC 11600 N. APTUS ROAD, EXT. 56	.S. EPA ID Number									
111 . ±±000 m, AP103 KUM1. FYFT SK	8. Designated Facility Name and Site Address									
ARAGONITE, UT 84029 Facility's Phone: (435) 884-8100	S. EPA ID Number	UTD981552177								
No. Type On	. Total 12. Unit	13. Waste Codes								
RQ, NA3082, Hazardous waste, liquid, n.o.s. (LEAD, POLYCHLORINATED BIPHENYLS), 9, / TT 5		DOOR, TSCA								
RQ, NA3082, Hazardous waste, liquid, n.o.s.(LEAD, POLYCHLORINATED BIPHENYLS), 9, TT 20	2895 K									
3										
4.										
14. Special Handling Instructions and Additional Information	·									
1)CH144002B USED OIL CONTAMINATED RESPONSE CENTER 800-424-8802, A EMERGENCY NUMBER OR LOCAL OPERA GENERATOR CONTACT: HARRY UNBINE	ND 911 ATOR. ETTI	200								
15. GENERATOR'S CERTIFICATION: I hereby declare that the contents or this consignment are fully and accurately described above by the property and tabeled/placarded, and are in all respects in proper condition for trensport according to applicable international and national governmental registerity that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Censent. I certify that the waste minimization statement identified in 40 CFR-262.27(a) (if I am a large quantity generator) of (b) (if I am a small quantity generator) is Generator's/Offeror's Pylighd/Typed Name	Orura (ICN) S. III exilian i shir	iment and I am the Primary								
18. International Stripments		Month Day Year 10 7 1/								
Transporter signature (for exports only): Limport to U.S. Export from U.S. Port of entry/exit Date leaving U.S.:										
Transporter 1 Printed/Typed Name Skinature		Month Day Year								
Transporter 2 Printed/Typed Name Signature		10 7 11 Month Day Year								
18. Discrepancy										
	ortial Rejection	Full Rejection								
18b. Alternate Facility (or Generalor) Wanifest Reference Number: U.S. E	PAID Number									
Facility's Phone: 18c. Signature of Alternate Facility (or Generator)		Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)		Month Day Year								
3.	4.									
20. Designated Facility Owner or Operator: Certification of receipt of jezzardous materials covered by the manifest except as noted in Kerp 18a Printed/Typed Name Signature		MAN LOWER WALL								
A Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY	ATO DESTINATION	ON STATE (IF REQUIRED)								



LDR NOTIFICATION FORM

Gener Name		nerald Services Inc. – Airport Way			ifest	004391191FLE		
Pursuan	t to 40 CFR §268.7(a), I hereby notify that this shipment contains waste re	estricted un	No. der 40 CF	R Part 268 I	and Disposed Bostoinia (I EV)		
Pursuant to 40 CFR \$268.7(a), Thereby notify that this shipment contains waste restricted under 40 CFR Part 268 Land Disposal Restrictions (LDR). A. GENERAL WASTE NOTIFICATION								
Form Line No.	Profile No.	EPA Waste Codes & LDR Subcategories (if any) List codes or use Attachment I	NWW	ww	UH	C Waste Constituent Notification Check the "None" box or Legend Constituent # or use Attachment 2		
	-	D008, TSCA			,			
1	CH144002B		\boxtimes		ļ 			
		☑ Check if Attachment I has been used			⊠ None	Check if Attachment 2 has been used		
2	· · · · · · · · -				<u></u>			
		Check if Attachment 1 has been used			☐ None	Check if Attachment 2 has been used		
3								
		☐ Check if Attachment 1 has been used			None	☐ Check if Attachment 2 has been used		
4		-						
		☐ Check if Attachment 1 has been used			☐ None	Check if Attachment 2 has been used		
					L3 None	Check it Attachment 2 has been used		
5								
		Check if Attachment 1 has been used			☐ None	Check if Attachment 2 has been used		
6			П					
		☐ Check if Attachment 1 has been used			☐ None	Charless H. L. (a)		
		B. HAZARDOUS DEB	RIS NO	TIFICA		Check if Attachment 2 has been used		
The w	vaste contains the fo	identified above on Line No(s). Illowing contaminants subject to treatment (check all t	is subject that apply):	to the alter	mative treat	ment standards of 40 CFR §268.45.		
Toxicity characteristic debris ☐ Debris contaminated with listed waste ☐ Cyanide reactive debris C. CONTAMINATED SOIL NOTIFICATION & CERTIFICATION ☐ This contaminated soil, as identified above on Line No(s). ☐ Complete the following: "I certify under penalty of law that I personally have examined this contaminated soil & it [☐does/ ☐does not] contain listed hazardous waste & [☐does/ ☐does not] exhibit a characteristic of hazardous waste & [☐is subject to / ☐complies with] soil treatment standards as provided by §268.49(c) or the universal treatment standards". Note: Constituents subject to treatment are any constituents listed in 40 CFR §268.48 Universal Treatment Standards that are reasonably expected to be present in any given volume of contaminated soil, except fluoride, selenium, sulfides, vanadium & zinc, & are present at concentrations greater than ten times the universal treatment standard.								
D. LAB PACK (INCINERATION) NOTIFICATION & CERTIFICATION This lab pack, as identified above on Line No(s). "I certify under penalty of law that I personally have examined & am familiar with the waste & that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 & that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR §268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of								
E. EXTENSIONS & VARIANCES This waste, as identified above on Line No(s). is not prohibited from land disposal & is subject to a deadline extension or variance, e.g., treatability variance, base-by-case extension. Describe below any extension or variance that applies to this waste & include applicable dates:								
Generator's Authorized Signature Land Name & Title (Printed or Typed) Generator's Authorized Signature Land Republication of Variance in an applies to this waste & include applicable dates: Land Republication of Variance in an applies to this waste & include applicable dates: Land Republication of Variance in an applies to this waste & include applicable dates: Land Republication of Variance in an applies to this waste & include applicable dates: Land Republication of Variance in an applies to this waste & include applicable dates:								



Clean Harbors Aragonite LLC 11600 North Aprus Road Grantsville, UT 84029 435-884-8100

10/19/2011

UOM

Time In

Time Out

GROSS

92340 LBS

TARE___

37620 LBS

NET

54720 LBS

Container # or Fleet #

Load #

56448

Manifest #

004391191FLE

Sales Order #

DI3850168

Profile #

CH144002B

Tracking #

25414106

Emerald Recyling Services 1500 Airport Way South Seattle, WA 98134



Clean Harbors Aragonite LLC 11600 North Aptus Road Grantsville UT, 84029 UTD981552177 (435) 884-8100

CERTIFICATE OF DISPOSAL

Generator Facility Name:

Emerald Recyling Services

Generator Address:

1500 Airport Way South

Seattle, WA, 98134

Generator Contact Name:

Generator EPA ID: WAD058367152

Load #:

Sales Order#:

Date Received:

56448

DI3850168

10/19/2011

Manifest #:

004391191FLE

CH ID#

Original Date Removed Unit From Service Type

Serial # / Customer ID

Material Description

Disposal Date

Method of ---Disposal

Disposal Facility

25414106

10/17/2011

СМ

25414106 /

High Btu PCB Liquids For Incineration

11/12/2011

Incineration

Aragonite, UT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Authorized Agent

Tuesday, November 15, 2011

Date